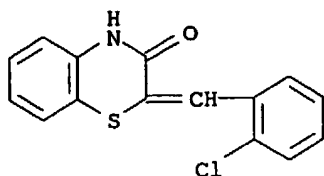


CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(2-chlorophenyl)methylene]- (9CI) (CA INDEX NAME)



L14 ANSWER 58 OF 74 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1974:552071 CAPLUS

DOCUMENT NUMBER: 81:152071

TITLE: Fungicides. XXIV. Reaction of 5-methoxycarbonylmethylidene-2-thioxo(or oxo)-4-thiazolidones with o-aminobenzenethiol and other thiols

AUTHOR(S): Nagase, Hiroshi

CORPORATE SOURCE: Agric. Chem. Div., Takeda Chem. Ind., Ltd., Osaka, Japan

SOURCE: Chem. Pharm. Bull. (1974), 22(1), 42-9

CODEN: CPBTAL

DOCUMENT TYPE: Journal

LANGUAGE: English

GI For diagram(s), see printed CA Issue.

AB A novel addn. reaction of .omicron.-aminobenzenethiol to 5-methoxycarbonylmethylene-2-thioxo-(or oxo)-4-thiazolidones (I) gave 3-methyl (or benzyl)-5-(3-oxo-2,3-dihydro-4H-1,4-benzothiazin-2-yl)-2-thioxo(or oxo)-4-thiazolidones (II). I also reacted with thiols to

afford

1:1 adducts (III and IV) in the presence of a catalytic amt. of NEt_3 .

Thermal cyclization of the adducts III to II was observed. The adducts

IV

dissocd. into I and thiols when heated above their m.p. or dissolved in acetone or ethanol. Oxidn. of II and IV gave the dehydro-compds. V and VI, resp.

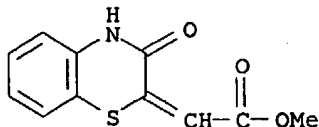
IT 54255-33-3

RL: RCT (Reactant)

(reaction with triethylammonium benzyldithiocarbamate)

RN 54255-33-3 CAPLUS

CN Acetic acid, (3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, methyl ester (9CI) (CA INDEX NAME)



L14 ANSWER 59 OF 74 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1973:542782 CAPLUS

DOCUMENT NUMBER: 79:142782

TITLE: 4-[3-(Dimethylamino)propyl]-3,4-dihydro-2-(1-hydroxyethyl)-3-phenyl-2H-1,4-benzothiazine and related compounds. New class of antiinflammatory agents

AUTHOR(S): Krapcho, John; Turk, Chester F.

CORPORATE SOURCE: Squibb Inst. Med. Res., Princeton, N. J., USA
SOURCE: J. Med. Chem. (1973), 16(7), 776-9
CODEN: JMCMAR
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Several of 23 benzothiazines synthesized show significant antiinflammatory

activity in rats, the most potent being 4-[3-(dimethylamino)propyl]-3,4-dihydro-2-(1-hydroxyethyl)-3-phenyl-2H-1,4-benzothiazine-HCl (I-HCl) [42585-60-4] and

2-acetyl-4-[3-(dimethylamino)propyl]-3,4-dihydro-3-phenyl-2H-1,4-benzothiazine-HCl (II-HCl) [42381-03-3]. I and II inhibited carrageenin-induced rat paw edema at 55 and 65 mg/kg orally, respectively.

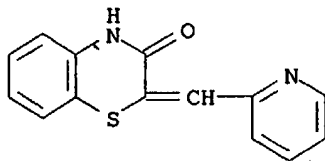
To synthesize I, 2-aminobenzenethiol [137-07-5] was condensed with chloroacetic acid [79-11-8] to form 1,4-benzothiazin-3(4H)-one [5325-20-2], then with BzH to form the 2-benzylidene deriv. and with 3-dimethylaminopropyl chloride [109-54-6] to attach the side chain. Interaction with MeMgBr followed by aq. NH₄Cl and heating resulted in rearrangement to II, redn. of which with NaBH₄ yielded I.

IT 33216-62-5P 50346-41-3P 50346-42-4P
50346-43-5P 50393-32-3P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

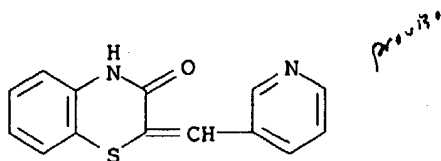
RN 33216-62-5 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(2-pyridinylmethylene)- (9CI) (CA INDEX NAME)



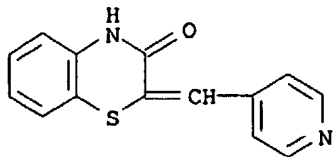
RN 50346-41-3 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(3-pyridinylmethylene)- (9CI) (CA INDEX NAME)



RN 50346-42-4 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(4-pyridinylmethylene)- (9CI) (CA INDEX NAME)



RN 50346-43-5 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 6-chloro-2-(phenylmethylene)- (9CI) (CA